SEMINARIO

Núcleo Modelos Estocásticos de Sistemas Complejos y Desordenados

Expositor

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Titulo:

Quenched Voronoi percolation

Resumen:

In a seminal work from 1999, Benjamini, Kalai and Schramm introduced a framework for studying sensitivity of Boolean functions with respect to small portions of noise. They moreover made a series of conjectures that have been highly influential for the development since. We will in this talk discuss the solution to one of these conjectures, concerning Voronoi percolation: Position a large number of points in the unit square and consider their Voronoi tessellation. Next, colour each cell either red or blue. The question is whether from observing the tessellation, but not the colouring, will help us in guessing whether the colouring will produce a horizontal red crossing or not? We prove this is not the case.

Martes 13 de enero a las 15 : 30 hrs, Sala Multimedia del Centro de Modelamiento Matemático de la Universidad de Chile, en Beauchef 851, Torre Norte, 6 piso (acceso por el 7 piso).